

L15 ANSWER 74 OF 101 CA COPYRIGHT 2002 ACS

AN 91:191146 CA

TI Idiotypic analysis of antibodies against the terpolymer  
L-glutamic acid60-L-alanine30-L-tyrosine10 (GAT). IV. Induction of CGAT  
idiotype following immunization with various synthetic polymers containing  
glutamic acid and tyrosine

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SO Eur. J. Immunol. (1979 ), 9(7), 553-60

CODEN: EJIMAF; ISSN: 0014-2980

DT Journal

LA English

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Serial No.: 09/816,989

Filed: March 23, 2001

Exhibit 37

AB

The immune responses of all inbred strains of mice specific to the synthetic terpolymer poly(LGlu60LAla30LTyr10), referred to as GAT10, are characterized by the presence of anti-GAT antibodies which share a common (CGAT) idiootype. The ability of the synthetic polymers, LGlu33LAla33LTyr33, LGlu51LAla34LTyr15, and poly-L(Tyr, Glu)-DLAla--LLys [(T,G)-A--L] to induce antibodies with CGAT idiotypic specificities was studied. All of these polymers contain GT-related determinants. Following immunization with these polymers, antiserums from responder mice bound to the corresponding 125I-labeled antigen and 125I-labeled poly(LGlu50LTyr50) or GAT10. These antiserums shared the CGAT idiootype which is assocd. with the antibody fraction with binding specificity for GAT10. Thus, GT-related determinants are required for the induction of the CGAT idiootype. Moreover, since the immune responses to these synthetic polymers are under distinct H-2 linked immune response (Ir) gene control, a mouse strain can be nonresponder to 1 polymer and responder to another; in this case, only the latter polymer induces the CGAT idiootype. Thus, although the immune responses of inbred strains of mice to different polymers are under distinct Ir gene control, the antibody responses can be idiotypically related.